11 Publication number:

0 426 637 A3

(P)

EUROPEAN PATENT APPLICATION

- 21 Application number: 90870174.1
- (51) Int. Cl.5: C08F 4/603, C08F 10/00

- 2 Date of filing: 09.10.90
- Priority: 30.10.89 US 419046
- ① Date of publication of application: 08.05.91 Bulletin 91/19
- Designated Contracting States:
 AT BE CH DE DK ES FR GB GR IT LI LU NL SE
- Date of deferred publication of the search report:
 07.08.91 Bulletin 91/32
- Applicant: FINA TECHNOLOGY, INC. 8350 North Central Expressway Dallas, Texas 75206(US)
- Inventor: Ewen, John A. 16615 Kentwood Avenue Houston, Texas 77058(US) Inventor: Elder, Michael J. 706 Stoneledge
 - Friendswood, Texas 77546(US)
- Representative: Leyder, Francis et al c/o Fina Research S.A. Zone Industrielle C B-7181 Feluy(BE)
- Preparation of metallocene catalysts for polymerization of olefins.
- This invention uses a new method of producing ionic metallocene compounds. These compounds are useful as catalysts for polymerization of olefins, primarily propylene. This method uses an ionizing agent which ionizes the neutral metallocene compound. The ionizing ionic compound does not contain an active proton and contains a carbonium, oxonium or sulfonium cation. The anion of the ionizing ionic compound is not coordinated or is only loosely coordinated to the metallocene cation and is chemically unreactive with the metallocene cation. One such compound is triphenylcarbenium tetrakis-(pentafluorophenyl)boronate.

The process of making catalysts with this invention produces catalysts having high activity and does not produce by-products which can inhibit catalyst activity. This new synthesis is a clean reaction which does not produce a Lewis base. The process generates active catalysts by removing a methyl anion from a group IV metallocene derivative.

EP 0 426 637 A3





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EUROPEAN SEARCH REPORT

Application Number

EP 90 87 0174

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Place of search Date of completion of search The Hague 08 May 91		1	Examiner	
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